Adrienne D Cox

List of Publications by Year
in descending order

119	11,635	36303 51	28297 105
papers	citations	h-index	g-index

121	121	121	14807
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Drugging the undruggable RAS: Mission Possible?. Nature Reviews Drug Discovery, 2014, 13, 828-851.	46.4	1,484
2	Ras history. Small GTPases, 2010, 1, 2-27.	1.6	586
3	Ras signalling on the endoplasmic reticulum and the Golgi. Nature Cell Biology, 2002, 4, 343-350.	10.3	582
4	Combination of ERK and autophagy inhibition as a treatment approach for pancreatic cancer. Nature Medicine, 2019, 25, 628-640.	30.7	476
5	PKC Regulates a Farnesyl-Electrostatic Switch on K-Ras that Promotes its Association with Bcl-Xl on Mitochondria and Induces Apoptosis. Molecular Cell, 2006, 21, 481-493.	9.7	421
6	The dark side of Ras: regulation of apoptosis. Oncogene, 2003, 22, 8999-9006.	5.9	396
7	Phospholipase Cî³ activates Ras on the Golgi apparatus by means of RasGRP1. Nature, 2003, 424, 694-698.	27.8	391
8	Inhibiting farnesylation of progerin prevents the characteristic nuclear blebbing of Hutchinson-Gilford progeria syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12879-12884.	7.1	334
9	Activation of RalA is critical for Ras-induced tumorigenesis of human cells. Cancer Cell, 2005, 7, 533-545.	16.8	330
10	RALA and RALBP1 regulate mitochondrial fission atÂmitosis. Nature Cell Biology, 2011, 13, 1108-1115.	10.3	327
11	Targeting RAS Membrane Association: Back to the Future for Anti-RAS Drug Discovery?. Clinical Cancer Research, 2015, 21, 1819-1827.	7.0	323
12	Ras CAAX Peptidomimetic FTI-277 Selectively Blocks Oncogenic Ras Signaling by Inducing Cytoplasmic Accumulation of Inactive Ras-Raf Complexes. Journal of Biological Chemistry, 1995, 270, 26802-26806.	3.4	319
13	Rho Family GTPase Modification and Dependence on CAAX Motif-signaled Posttranslational Modification. Journal of Biological Chemistry, 2008, 283, 25150-25163.	3.4	275
14	Ras Family Signaling: Therapeutic Targeting. Cancer Biology and Therapy, 2002, 1, 599-606.	3.4	191
15	Long-Term ERK Inhibition in KRAS-Mutant Pancreatic Cancer Is Associated with MYC Degradation and Senescence-like Growth Suppression. Cancer Cell, 2016, 29, 75-89.	16.8	191
16	K-Ras4A splice variant is widely expressed in cancer and uses a hybrid membrane-targeting motif. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 779-784.	7.1	184
17	PRL Tyrosine Phosphatases Regulate Rho Family GTPases to Promote Invasion and Motility. Cancer Research, 2006, 66, 3153-3161.	0.9	179
18	[40] Biological assays for Ras transformation. Methods in Enzymology, 1995, 255, 395-412.	1.0	176

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19	R-Ras Signals through Specific Integrin Î± Cytoplasmic Domains to Promote Migration and Invasion of Breast Epithelial Cells. Journal of Cell Biology, 1999, 145, 1077-1088.	5.2	143
20	Rac Guanosine Triphosphatases Represent Integrating Molecular Therapeutic Targets for BCR-ABL-Induced Myeloproliferative Disease. Cancer Cell, 2007, 12, 467-478.	16.8	140
21	Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. Cancer Discovery, 2020, 10, 104-123.	9.4	131
22	Farnesyltransferase inhibitors and cancer treatment: targeting simply Ras?. Biochimica Et Biophysica Acta: Reviews on Cancer, 1997, 1333, F51-F71.	7.4	125
23	Farnesyltransferase inhibitors: promises and realities. Current Opinion in Pharmacology, 2002, 2, 388-393.	3.5	124
24	Single Cell Ras-GTP Analysis Reveals Altered Ras Activity in a Subpopulation of Neurofibroma Schwann Cells but Not Fibroblasts. Journal of Biological Chemistry, 2000, 275, 30740-30745.	3.4	119
25	Folate-Targeted Polymeric Nanoparticle Formulation of Docetaxel Is an Effective Molecularly Targeted Radiosensitizer with Efficacy Dependent on the Timing of Radiotherapy. ACS Nano, 2011, 5, 8990-8998.	14.6	112
26	KRAS Suppression-Induced Degradation of MYC Is Antagonized by a MEK5-ERK5 Compensatory Mechanism. Cancer Cell, 2018, 34, 807-822.e7.	16.8	112
27	Targeting RAS -mutant Cancers: Is ERK the Key?. Trends in Cancer, 2015, 1, 183-198.	7.4	104
28	The role of wild type RAS isoforms in cancer. Seminars in Cell and Developmental Biology, 2016, 58, 60-69.	5.0	104
29	Ras mediates radioresistance through both phosphatidylinositol 3-kinase-dependent and Raf-dependent but mitogen-activated protein kinase/extracellular signal-regulated kinase kinase-independent signaling pathways. Cancer Research, 2002, 62, 4142-50.	0.9	104
30	Aurora-A Phosphorylates, Activates, and Relocalizes the Small GTPase RalA. Molecular and Cellular Biology, 2010, 30, 508-523.	2.3	100
31	Ect2-Dependent rRNA Synthesis Is Required for KRAS-TRP53 -Driven Lung Adenocarcinoma. Cancer Cell, 2017, 31, 256-269.	16.8	97
32	Gain-of-Function RHOA Mutations Promote Focal Adhesion Kinase Activation and Dependency in Diffuse Gastric Cancer. Cancer Discovery, 2020, 10, 288-305.	9.4	91
33	[24] Biological assays for cellular transformation. Methods in Enzymology, 1994, 238, 277-294.	1.0	90
34	Extracellular Signal-regulated Kinase (ERK) Phosphorylates Histone Deacetylase 6 (HDAC6) at Serine 1035 to Stimulate Cell Migration. Journal of Biological Chemistry, 2013, 288, 33156-33170.	3.4	86
35	RAS inhibitors: potential for cancer therapeutics. Trends in Molecular Medicine, 2000, 6, 398-402.	2.6	82
36	High Affinity for Farnesyltransferase and Alternative Prenylation Contribute Individually to K-Ras4B Resistance to Farnesyltransferase Inhibitors. Journal of Biological Chemistry, 2003, 278, 41718-41727.	3.4	80

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37	Geranylgeranyltransferase I Inhibitors Target RalB To Inhibit Anchorage-Dependent Growth and Induce Apoptosis and RalA To Inhibit Anchorage-Independent Growth. Molecular and Cellular Biology, 2007, 27, 8003-8014.	2.3	77
38	Atypical Mechanism of Regulation of the Wrch-1 Rho Family Small GTPase. Current Biology, 2004, 14, 2052-2056.	3.9	74
39	Prenyl-binding domains: potential targets for Ras inhibitors and anti-cancer drugs. Seminars in Cancer Biology, 2004, 14, 253-261.	9.6	72
40	Transforming Activity of the Rho Family GTPase, Wrch-1, a Wnt-regulated Cdc42 Homolog, Is Dependent on a Novel Carboxyl-terminal Palmitoylation Motif. Journal of Biological Chemistry, 2005, 280, 33055-33065.	3.4	72
41	Guanine nucleotide exchange factors: Activators of Ras superfamily proteins. Molecular Reproduction and Development, 1995, 42, 468-476.	2.0	70
42	Low-Dose Vertical Inhibition of the RAF-MEK-ERK Cascade Causes Apoptotic Death of KRAS Mutant Cancers. Cell Reports, 2020, 31, 107764.	6.4	69
43	Oncogenic Synergism between ErbB1, Nucleolin, and Mutant Ras. Cancer Research, 2011, 71, 2140-2151.	0.9	67
44	INO80 governs superenhancer-mediated oncogenic transcription and tumor growth in melanoma. Genes and Development, 2016, 30, 1440-1453.	5.9	65
45	Inhibitors of Chronically Active Ras: Potential for Treatment of Human Malignancies. Recent Patents on Anti-Cancer Drug Discovery, 2008, 3, 31-47.	1.6	59
46	Nanoparticle formulations of histone deacetylase inhibitors for effective chemoradiotherapy in solid tumors. Biomaterials, 2015, 51, 208-215.	11.4	59
47	Rho GTPases, oxidation, and cell redox control. Small GTPases, 2014, 5, e28579.	1.6	57
48	Farnesyltransferase Inhibitors. Drugs, 2001, 61, 723-732.	10.9	56
49	Geranylgeranyltransferase I as a target for anti-cancer drugs. Journal of Clinical Investigation, 2007, 117, 1223-1225.	8.2	56
50	The oncogenic kinase Pim-1 is modulated by K-Ras signaling and mediates transformed growth and radioresistance in human pancreatic ductal adenocarcinoma cells. Carcinogenesis, 2011, 32, 488-495.	2.8	55
51	Regulation of Rnd3 localization and function by protein kinase Cî±-mediated phosphorylation. Biochemical Journal, 2009, 424, 153-161.	3.7	53
52	Radiosensitization of Epidermal Growth Factor Receptor/HER2â€“Positive Pancreatic Cancer Is Mediated by Inhibition of Akt Independent of Ras Mutational Status. Clinical Cancer Research, 2010, 16, 912-923.	7.0	53
53	The Role of Ect2 Nuclear RhoGEF Activity in Ovarian Cancer Cell Transformation. Genes and Cancer, 2013, 4, 460-475.	1.9	51
54	Evaluation of the selectivity and sensitivity of isoform- and mutation-specific RAS antibodies. Science Signaling, 2017, 10, .	3.6	51

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55	The Transforming Rho Family GTPase Wrch-1 Disrupts Epithelial Cell Tight Junctions and Epithelial Morphogenesis. Molecular and Cellular Biology, 2009, 29, 1035-1049.	2.3	50
56	R-Ras is regulated by activators and effectors distinct from those that control Ras function. Oncogene, 1997, 14, 133-143.	5.9	49
57	Concepts in Ras-directed therapy. Expert Opinion on Investigational Drugs, 1999, 8, 2121-2140.	4.1	49
58	Requirement For C-terminal Sequences in Regulation of Ect2 Guanine Nucleotide Exchange Specificity and Transformation. Journal of Biological Chemistry, 2004, 279, 25226-25233.	3.4	49
59	Rac1 and Rac3 are targets for geranylgeranyltransferase I inhibitor-mediated inhibition of signaling, transformation, and membrane ruffling. Cancer Research, 2003, 63, 7959-67.	0.9	49
60	Ras, but not Src, transformation of RIE-1 epithelial cells is dependent on activation of the mitogen-activated protein kinase cascade. Oncogene, 1998, 16, 2565-2573.	5.9	48
61	Rit, a non-lipid-modified Ras-related protein, transforms NIH3T3 cells without activating the ERK, JNK, p38 MAPK or PI3K/Akt pathways. Oncogene, 2000, 19, 4685-4694.	5.9	48
62	Application of a MYC degradation screen identifies sensitivity to CDK9 inhibitors in KRAS-mutant pancreatic cancer. Science Signaling, 2019, 12, .	3.6	46
63	Endothelial Cells Contain a Glycine-Gated Chloride Channel. Nutrition and Cancer, 2001, 40, 197-204.	2.0	45
64	Mammalian expression vectors for Ras family proteins: Generation and use of expression constructs to analyze Ras family function. Methods in Enzymology, 2001, 332, 3-36.	1.0	42
65	A Distinct Class of Dominant Negative Ras Mutants. Journal of Biological Chemistry, 2002, 277, 10813-10823.	3.4	39
66	Regulation of the Rho Family Small GTPase Wrch-1/RhoU by C-Terminal Tyrosine Phosphorylation Requires Src. Molecular and Cellular Biology, 2010, 30, 4324-4338.	2.3	38
67	Pharmacological inhibition of Ras-transformed epithelial cell growth is linked to down-regulation of epidermal growth factorâ€“related peptides. Gastroenterology, 1999, 117, 567-576.	1.3	37
68	The Raf Inhibitor Paradox: Unexpected Consequences of Targeted Drugs. Cancer Cell, 2010, 17, 221-223.	16.8	37
69	Divergent Roles of CAAX Motif-signaled Posttranslational Modifications in the Regulation and Subcellular Localization of Ral GTPases. Journal of Biological Chemistry, 2015, 290, 22851-22861.	3.4	37
70	ERK/MAPK Signaling Drives Overexpression of the Rac-GEF, PREX1, in BRAF- and NRAS-Mutant Melanoma. Molecular Cancer Research, 2016, 14, 1009-1018.	3.4	36
71	Role of TC21/R-Ras2 in enhanced migration of neurofibromin-deficient Schwann cells. Oncogene, 2004, 23, 368-378.	5.9	35
72	Genetic and functional characterization of putative Ras/Raf interaction inhibitors in C. elegans and mammalian cells. Journal of Molecular Signaling, 2010, 5, 2.	0.5	34

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73	Redox regulation of Rac1 by thiol oxidation. Free Radical Biology and Medicine, 2015, 79, 237-250.	2.9	34
74	[21] Analysis of Ras protein expression in mammalian cells. Methods in Enzymology, 1995, 255, 195-220.	1.0	33
75	Phosphorylation by Protein Kinase CÎ± Regulates RalB Small GTPase Protein Activation, Subcellular Localization, and Effector Utilization. Journal of Biological Chemistry, 2012, 287, 14827-14836.	3.4	31
76	Epidermal growth factor receptor autocrine signaling in RIE-1 cells transformed by the Ras oncogene enhances radiation resistance. Cancer Research, 2003, 63, 7807-14.	0.9	31
77	Using Inhibitors of Prenylation to Block Localization and Transforming Activity. Methods in Enzymology, 2006, 407, 575-597.	1.0	30
78	Src-Mediated Phosphorylation of the Tyrosine Phosphatase PRL-3 Is Required for PRL-3 Promotion of Rho Activation, Motility and Invasion. PLoS ONE, 2013, 8, e64309.	2.5	30
79	Protein Kinase CK2Î± Maintains Extracellular Signal-regulated Kinase (ERK) Activity in a CK2Î± Kinase-independent Manner to Promote Resistance to Inhibitors of RAF and MEK but Not ERK in BRAF Mutant Melanoma. Journal of Biological Chemistry, 2016, 291, 17804-17815.	3.4	28
80	Concurrent Inhibition of IGF1R and ERK Increases Pancreatic Cancer Sensitivity to Autophagy Inhibitors. Cancer Research, 2022, 82, 586-598.	0.9	27
81	Biochemical Analyses of the Wrch Atypical Rho Family GTPases. Methods in Enzymology, 2006, 406, 11-26.	1.0	23
82	Ras-Related Small GTPases RalA and RalB Regulate Cellular Survival After Ionizing Radiation. International Journal of Radiation Oncology Biology Physics, 2010, 78, 205-212.	0.8	23
83	The RAF Inhibitor Paradox Revisited. Cancer Cell, 2012, 21, 147-149.	16.8	23
84	RPL23 Links Oncogenic RAS Signaling to p53-Mediated Tumor Suppression. Cancer Research, 2016, 76, 5030-5039.	0.9	23
85	Ras inhibition boosts galectin-7 at the expense of galectin-1 to sensitize cells to apoptosis. Oncotarget, 2013, 4, 256-268.	1.8	23
86	Use of Retrovirus Expression of Interfering RNA to Determine the Contribution of Activated Kâ€Ras and Ras Effector Expression to Human Tumor Cell Growth. Methods in Enzymology, 2006, 407, 556-574.	1.0	21
87	Use of Caenorhabditis elegans to Evaluate Inhibitors of Ras Function In Vivo. Methods in Enzymology, 2008, 439, 425-449.	1.0	20
88	Aberrant Expression and Subcellular Localization of ECT2 Drives Colorectal Cancer Progression and Growth. Cancer Research, 2022, 82, 90-104.	0.9	19
89	R-Ras C-terminal sequences are sufficient to confer R-Ras specificity toH-Ras. Oncogene, 2002, 21, 4448-4461.	5.9	18
90	TLN-4601 suppresses growth and induces apoptosis of pancreatic carcinoma cells through inhibition of Ras-ERK MAPK signaling. Journal of Molecular Signaling, 2010, 5, 18.	0.5	18

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91	Rac3-Mediated Transformation Requires Multiple Effector Pathways. Cancer Research, 2005, 65, 9883-9890.	0.9	15
92	Targeting p130Cas- and microtubule-dependent MYC regulation sensitizes pancreatic cancer to ERK MAPK inhibition. Cell Reports, 2021, 35, 109291.	6.4	15
93	INHIBITION OF CHRONIC REJECTION OF AORTIC ALLOGRAFTS BY DIETARY GLYCINE. Transplantation, 2000, 69, 773-781.	1.0	15
94	The KRAS-regulated kinome identifies WEE1 and ERK coinhibition as a potential therapeutic strategy in KRAS-mutant pancreatic cancer. Journal of Biological Chemistry, 2021, 297, 101335.	3.4	14
95	CHK1 protects oncogenic KRAS-expressing cells from DNA damage and is a target for pancreatic cancer treatment. Cell Reports, 2021, 37, 110060.	6.4	14
96	[23] Transcriptional activation analysis of oncogene function. Methods in Enzymology, 1994, 238, 271-276.	1.0	13
97	Silencing the Killers: Paracrine Immune Suppression in Pancreatic Cancer. Cancer Cell, 2012, 21, 715-716.	16.8	13
98	[10] Mutation and analysis of prenylation signal sequences. Methods in Enzymology, 1995, 250, 105-121.	1.0	12
99	The C. elegans Chp/Wrch Ortholog CHW-1 Contributes to LIN-18/Ryk and LIN-17/Frizzled Signaling in Cell Polarity. PLoS ONE, 2015, 10, e0133226.	2.5	11
100	Concurrent Inhibition of ERK and Farnesyltransferase Suppresses the Growth of HRAS Mutant Head and Neck Squamous Cell Carcinoma. Molecular Cancer Therapeutics, 2022, 21, 762-774.	4.1	9
101	Visual monitoring of post-translational lipid modifications using EGFP-GTPase probes in live cells. Methods, 2005, 37, 131-137.	3.8	8
102	Targeting the ERK mitogen-activated protein kinase cascade for the treatment of KRAS-mutant pancreatic cancer. Advances in Cancer Research, 2022, 153, 101-130.	5.0	8
103	Up-front polytherapy for ALK-positive lung cancer. Nature Medicine, 2015, 21, 974-975.	30.7	7
104	Silencing of Oncogenic KRAS by Mutant-Selective Small Interfering RNA. ACS Pharmacology and Translational Science, 2021, 4, 703-712.	4.9	7
105	Can too much lipid glue stop Ras?. Nature Chemical Biology, 2010, 6, 483-485.	8.0	6
106	Prenylation and Phosphorylation of Ras Superfamily Small GTPases. The Enzymes, 2011, 30, 43-69.	1.7	5
107	Posttranslational Modifications of Small G Proteins. , 2014, , 99-131.		5
108	Role of R-Ras in Cell Growth. , 2010, , 1753-1762.		3

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109	Functional proteomics analysis of GTPase signaling networks. Methods in Enzymology, 2001, 332, 300-316.	1.0	2
110	Prenyl-binding domains: potential targets for Ras inhibitors and anti-cancer drugs. Seminars in Cancer Biology, 2004, 14, 253-253.	9.6	2
111	Farnesyltransferase Inhibitors. , 2010, , 1819-1826.		1
112	Effector Recruitment Method to Study Spatially Regulated Activation of Ras and Rho GTPases. Methods in Molecular Biology, 2014, 1120, 263-283.	0.9	1
113	Farnesyltransferase and Geranylgeranyltransferase Inhibitors: The Saga Continues. , 0, , 255-273.		1
114	Ras. , 0, , 258-271.		0
115	Farnesyltransferase Inhibitors. , 2003, , 737-744.		0
116	Role of R-Ras in Cell Growth. , 2003, , 681-688.		0
117	Anti-Ras Strategies for Cancer Treatment. , 2006, , 353-380.		0
118	Rac GTPases Are Potential Therapeutic Targets in p210-BCR-ABL-Induced Myeloproliferative Disease (MPD).. Blood, 2007, 110, 465-465.	1.4	0
119	Rho GTPases in Regulation of Cancer Cell Motility, Invasion, and Microenvironment. , 2010, , 67-91.		0